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### **EUROPEAN PATENT APPLICATION**

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(11)

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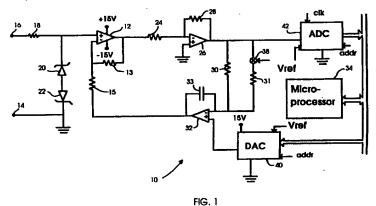
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## (54) Method and apparatus for phase related cardiac defibrillation

(57) An implantable cardioverter/defibrillator and method for its use are disclosed. A sensing electrode (14, 16) provides an ECG signal to the defibrillator, this signal is amplified (12, 26) and evaluated for the presence of a tachyarrhythmia. The phase of the ECG signal is sensed during a detected fibrillation or tachycardia and this determines the phase of the stimulating output

signals. The ECG may be continously sensed during the application of the defibrillating output and each output is held constant until a threshold crossing of the ECG is detected, whereupon the defibrillating output is changed





# PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention EP 94 11 2555 shall be considered, for the purposes of subsequent proceedings, as the European search report

Category	Citation of document with of relevant p	indication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)
A		RDIAC PACEMAKERS, INC.)	1-7, 12-14, 17-21	A61N1/39
	* the whole docume	nt *	17-21	
A	US 4 967 747 A (VE	NTRITEX, INC.)	1,2,5-7, 9,10,13, 14,16, 20,21	
	* the whole docume	nt *		
A,P	EP 0 589 251 A (CA	RDIAC PACEMAKERS, INC.)	1,3,7,8, 13,15, 18-20	10
	* column 4, line 5	- column 9, line 30 *	10-20	
				TECHNICAL FIELDS
				SEARCHED (Int.Cl.6) A61N
The Searce the provisi out a mean Claims sea Claims sea	loas of the European Patent Conven	t European patent application does not comply tion to such an extent that it is not possible to art on the basis of some of the claims.	with carry	
Reason for	r the limitation of the search:			
see	sheet C			
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	Place of search	Date of completion of the search	,_	Examiner
CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category  T: theory or principle underlying the E: earlier patent document, but pub after the filling date D: document cited in the application to the comment of the same category  L: document died for other reasons		e underlying the i nument, but publis ate the application	invention ched on, or	
docu	ment of the same category nological background			



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EP 94 11 2555 - C -

### **INCOMPLETE SEARCH**

The Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims.

Claims searched completely:

1-21

Claims searched incompletely:

Claims not searched:

22-27

Reason for the limitation of the search: Method for treatment of the human or animal body by surgery or therapy (see Art. 52(4) of the European Patent Convention).

EPO Form

Supplementary Sheet C (1996)